## **RAW SEQUENCE LISTING**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number:	10/573,962
Source:	IFWP.
Date Processed by STIC:	4/7/06
•	

## ENTERED



**IFWP** 

RAW SEQUENCE LISTING DATE: 04/07/2006
PATENT APPLICATION: US/10/573,962 TIME: 14:58:51

Input Set : A:\PTO.DA.txt

Output Set: N:\CRF4\04072006\J573962.raw

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3 <110> APPLICANT: GOVERNMENT OF THE UNITED STATES OF AMERICA, REPRESENTED BY
             THE SECRETARY, DEPARTMENT OF HEALTH AND HUMAN SERVICES
             DIMITROV, Dimiter S.
     5
             ZHANG, Mei-Yun
     8 <120> TITLE OF INVENTION: IMMUNOGLOBULINS WITH POTENT AND BROAD ANTIVIRAL ACTIVITY
    10 <130> FILE REFERENCE: 251149
C--> 12 <140> CURRENT APPLICATION NUMBER: US/10/573,962
C--> 12 <141> CURRENT FILING DATE: 2006-03-29
    12 <150> PRIOR APPLICATION NUMBER: US 60/506,946
    13 <151> PRIOR FILING DATE: 2003-09-29
    15 <150> PRIOR APPLICATION NUMBER: PCT/USO4/31878 -
    16 <151> PRIOR FILING DATE: 2004-09-29
    18 <160> NUMBER OF SEQ ID NOS: 19
    20 <170> SOFTWARE: PatentIn version 3.3
    22 <210> SEQ ID NO: 1
    23 <211> LENGTH: 254
    24 <212> TYPE: PRT
    25 <213> ORGANISM: Artificial
     27 <220> FEATURE:
     28 <223> OTHER INFORMATION: Synthetic
     30 <400> SEQUENCE: 1
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     36 Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Ser Ser Gly Ser Leu
     40 Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile Tyr
     44 Gly Ala Ser Thr Arg Ala Thr Gly Ile Pro Asp Arg Phe Ser Gly Ser
                                55
     48 Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Gly Arg Leu Glu Pro Glu
    52 Asp Leu Ala Val Tyr Tyr Cys Gln Gln Tyr Gly Thr Ser Pro Tyr Thr
                       85
                                            90
    56 Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys Arg Thr Gly Gly Gly Gly
                   100
                                        105
    60 Ser Gly Gly Gly Ala Ser Gly Gly Gly Ser Val Arg Leu Leu Glu
                                    120
     64 Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser Ser Val Gln Val Ser
                                135
     68 Cys Lys Ala Ser Gly Gly Thr Phe Ser Met Tyr Gly Val Asn Trp Val
                           150
     72 Arg Gln Ala Pro Gly His Gly Leu Glu Trp Met Gly Gly Ile Ile Pro
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165

73

RAW SEQUENCE LISTING DATE: 04/07/2006
PATENT APPLICATION: US/10/573,962 TIME: 14:58:51

Input Set : A:\PTO.DA.txt

Output Set: N:\CRF4\04072006\J573962.raw

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76 Ile Phe Gly Thr Ser Asn Tyr Ala Gln Lys Phe Arg Gly Arg Val Thr
              180
                                  185
80 Phe Thr Ala Asp Gln Ala Thr Ser Thr Ala Tyr Met Glu Leu Thr Asn
81 . 195
                             200
84 Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys Ala Arg Asp Phe Gly
                          215
88 Pro Asp Trp Glu Asp Gly Asp Ser Tyr Asp Gly Ser Gly Arg Gly Phe
                      230
92 Phe Asp Phe Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
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96 <210> SEQ ID NO: 2
97 <211> LENGTH: 254
98 <212> TYPE: PRT
99 <213> ORGANISM: Artificial
101 <220> FEATURE:
102 <223> OTHER INFORMATION: Synthetic
104 <400> SEQUENCE: 2
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        ·· ` 5
107 1
110 Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Ser Ser Gly Ser Leu
111 20 20 25
114 Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile Tyr
118 Gly Ala Ser Thr Arg Ala Thr Gly Ile Pro Asp Arg Phe Ser Gly Ser
                           55
122 Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Gly Arg Leu Glu Pro Glu
126 Asp Leu Ala Val Tyr Tyr Cys Gln Gln Tyr Gly Thr Ser Pro Tyr Thr
                   85
130 Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys Arg Thr Gly Gly Gly Gly
                                   105
134 Ser Gly Gly Gly Ser Gly Gly Gly Ser Val Gln Leu Leu Glu
          115
                               120
                                                  125
138 Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser Ser Val Gln Val Ser
                           135
142 Cys Lys Ala Phe Gly Gly Thr Phe Ser Met Tyr Gly Phe Asn Trp Val
                       150
                                          155
146 Arg Gln Ala Pro Gly His Gly Leu Glu Trp Met Gly Gly Ile Ile Pro
                   165
150 Ile Phe Gly Thr Thr Asn Tyr Ala Gln Lys Phe Arg Gly Arg Val Thr
               180
                                   185
154 Phe Thr Ala Asp Gln Ala Thr Ser Thr Ala Tyr Met Glu Leu Thr Asn
                               200
158 Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys Ala Arg Asp Phe Gly
                           215
162 Pro Asp Trp Glu Gly Gly Asp Ser Tyr Asp Gly Ser Gly Arg Gly Phe
                       230
                                         235
166 Phe Asp Phe Trp Gly Gln Gly Thr Leu Val Asn Val Ser Ser
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PATENT APPLICATION: US/10/573,962 TIME: 14:58:51

Input Set : A:\PTO.DA.txt

Output Set: N:\CRF4\04072006\J573962.raw

170 <210> SEQ ID NO: 3 171 <211> LENGTH: 19 172 <212> TYPE: PRT 173 <213> ORGANISM: Artificial 175 <220> FEATURE: .176 <223> OTHER INFORMATION: Synthetic 178 <400> SEQUENCE: 3 180 Pro Asp Pro Glu Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro 181 1 184 Pro Cys Pro 188 <210> SEQ ID NO: 4 189 <211> LENGTH: 34 190 <212> TYPE: PRT 191 <213> ORGANISM: Artificial 193 <220> FEATURE: 194 <223> OTHER INFORMATION: Synthetic 196 <400> SEQUENCE: 4 202 Asp Pro Glu Clu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro 203 206 Cys Pro 210 <210> SEQ ID NO: 5 211 <211> LENGTH: 216 212 <212> TYPE: PRT 213 <213 > ORGANISM: Artificial 215 <220> FEATURE: 216 <223> OTHER INFORMATION: Synthetic 218 <400> SEQUENCE: 5 220 Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys 224 Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val 20 25 228 Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr 40 232 Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu 55 236 Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His 240 Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys 90 85 244 Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln 105 248 Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Asp Glu Leu 115 120 252 Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro 135 256 Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn

150

155

257 145

RAW SEQUENCE LISTING DATE: 04/07/2006
PATENT APPLICATION: US/10/573,962 TIME: 14:58:51

Input Set : A:\PTO.DA.txt

Output Set: N:\CRF4\04072006\J573962.raw

260 Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu 170 165 264 Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val 185 265 180 268 Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln 269 195 200 272 Lys Ser Leu Ser Leu Ser Pro Gly 273 210 276 <210> SEQ ID NO: 6 277 <211> LENGTH: 489 278 <212> TYPE: PRT 279 <213> ORGANISM: Artificial 281 <220> FEATURE: 282 <223> OTHER INFORMATION: Synthetic 284 <400> SEQUENCE: 6 286 Val Leu Thr Gln Ser Pro Gly Thr Leu Ser Leu Ser Ala Gly Glu Arg 287 1 290 Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Ser Ser Gly Ser Leu 25 294 Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu Île Tyr 295 35 298 Gly Ala Ser Thr Arg Ala Thr Gly Ile Pro Asp Arg Phe Ser Gly Ser 302 Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Gly Arg Leu Glu Pro Glu 70 306 Asp Leu Ala Val Tyr Tyr Cys Gln Gln Tyr Gly Thr Ser Pro Tyr Thr 90 310 Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys Arg Thr Gly Gly Gly 105 100 314 Ser Gly Gly Gly Ala Ser Gly Gly Gly Ser Val Arg Leu Leu Glu 120 318 Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser Ser Val Gln Val Ser 135 140 322 Cys Lys Ala Ser Gly Gly Thr Phe Ser Met Tyr Gly Val Asn Trp Val 155 150 326 Arg Gln Ala Pro Gly His Gly Leu Glu Trp Met Gly Gly Ile Ile Pro 170 165 330 Ile Phe Gly Thr Ser Asn Tyr Ala Gln Lys Phe Arg Gly Arg Val Thr 190 334 Phe Thr Ala Asp Gln Ala Thr Ser Thr Ala Tyr Met Glu Leu Thr Asn 200 338 Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys Ala Arg Asp Phe Gly 215 342 Pro Asp Trp Glu Asp Gly Asp Ser Tyr Asp Gly Ser Gly Arg Gly Phe 230 235 346 Phe Asp Phe Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Pro Asp 245 250 350 Pro Glu Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys 260 265

RAW SEQUENCE LISTING DATE: 04/07/2006
PATENT APPLICATION: US/10/573,962 TIME: 14:58:51

Input Set : A:\PTO.DA.txt

Output Set: N:\CRF4\04072006\J573962.raw

354 Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro 280 275 358 Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys 300 295 362 Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp 310 366 Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu 330 370 Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu 345 340 374 His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn 360 378 Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly 379 370 375 382 Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Asp Glu 390 395 386 Leu Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr 405 410 390 Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn 391 420 425 394 Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe 395 435 440 398 Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn 455 402 Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr 470 475 406 Gln Lys Ser Leu Ser Leu Ser Pro Gly 410 <210> SEQ ID NO: 7 411 <211> LENGTH: 504 412 <212> TYPE: PRT 413 <213> ORGANISM: Artificial 415 <220> FEATURE: 416 <223> OTHER INFORMATION: Synthetic 418 <400> SEOUENCE: 7 420 Val Leu Thr Gln Ser Pro Gly Thr Leu Ser Leu Ser Ala Gly Glu Arg 424 Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Ser Ser Gly Ser Leu 428 Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile Tyr 35 40 432 Gly Ala Ser Thr Arg Ala Thr Gly Ile Pro Asp Arg Phe Ser Gly Ser 55 436 Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Gly Arg Leu Glu Pro Glu 70 440 Asp Leu Ala Val Tyr Tyr Cys Gln Gln Tyr Gly Thr Ser Pro Tyr Thr 85 444 Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys Arg Thr Gly Gly Gly Gly 100 105 110

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 04/07/2006
PATENT APPLICATION: US/10/573,962 TIME: 14:58:52

Input Set : A:\PTO.DA.txt

Output Set: N:\CRF4\04072006\J573962.raw

## Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19

VERIFICATION SUMMARY DATE: 04/07/2006 TIME: 14:58:52 PATENT APPLICATION: US/10/573,962

Input Set : A:\PTO.DA.txt

Output Set: N:\CRF4\04072006\J573962.raw

L:12 M:270 C: Current Application Number differs, Replaced Current Application No L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date